



## SEQUENCE LISTING

<110> Pereira, Andrea  
Wentworth, Diana Bilodeau  
Gandhi, Rita

<120> KINESIN-LIKE PROTEINS AND METHODS OF USE

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<140> US 10/735,972

<141> 2003-12-15

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<151> 2002-12-13

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 Gln Ser Asp Asp Asp Leu His Leu Ser Met Glu Asp Phe Asp Ser Gln  
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act ggc gcc gga aaa aca ttc aca atg ctg ggc agc gag gct cat ccg	384
Thr Gly Ala Gly Lys Thr Phe Thr Met Leu Gly Ser Glu Ala His Pro	
115 120 125	
ggt ctg acc tat ctt acc atg caa gat ctc ttc gat aag atc caa gcg	432
Gly Leu Thr Tyr Leu Thr Met Gln Asp Leu Phe Asp Lys Ile Gln Ala	
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Gln Ser Asp Val Arg Lys Phe Asp Val Gly Val Ser Tyr Leu Glu Val	
145 150 155 160	
tac aac gaa cat gtg atg aat ctg cta act aaa tcg ggc cct tta aaa	528
Tyr Asn Glu His Val Met Asn Leu Leu Thr Lys Ser Gly Pro Leu Lys	
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Leu Arg Glu Asp Asn Asn Gly Val Val Val Ser Gly Leu Cys Leu Thr	
180 185 190	
ccc atc tac agt gcc gag gag ctg cta aga atg ctg atg ctg ggc aac	624
Pro Ile Tyr Ser Ala Glu Glu Leu Leu Arg Met Leu Met Leu Gly Asn	
195 200 205	
tct cat cgc act cag cac ccc aca gat gcc aat gca gag agt tcc agg	672
Ser His Arg Thr Gln His Pro Thr Asp Ala Asn Ala Glu Ser Ser Arg	
210 215 220	
tca cat gcc atc ttc cag gtg cac att agg atc acg gag cgc aag acc	720
Ser His Ala Ile Phe Gln Val His Ile Arg Ile Thr Glu Arg Lys Thr	
225 230 235 240	
gac acc aaa aga acg gtc aaa cta tcc atg atc gat ctg gcg ggc agt	768
Asp Thr Lys Arg Thr Val Lys Leu Ser Met Ile Asp Leu Ala Gly Ser	
245 250 255	
gag agg gcg gcc agt acg aaa ggc att gga gtg cga ttc aag gaa ggc	816
Glu Arg Ala Ala Ser Thr Lys Gly Ile Gly Val Arg Phe Lys Glu Gly	
260 265 270	
gcc agc atc aac aaa agt ctc tta gct ttg gga aat tgc ata aac aag	864

Ala	Ser	Ile	Asn	Lys	Ser	Leu	Leu	Ala	Leu	Gly	Asn	Cys	Ile	Asn	Lys		
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cta	gcc	gac	ggc	tta	aag	cac	atc	ccg	tac	cgc	gac	tcg	aac	ctg	aca		912
Leu	Ala	Asp	Gly	Leu	Lys	His	Ile	Pro	Tyr	Arg	Asp	Ser	Asn	Leu	Thr		
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cgc	atc	ctg	aag	gac	tcg	ttg	ggc	gga	aat	tgt	cgc	aca	ttg	atg	gtg		960
Arg	Ile	Leu	Lys	Asp	Ser	Leu	Gly	Gly	Asn	Cys	Arg	Thr	Leu	Met	Val		
305					310					315					320		
gcc	aat	gtc	tcg	atg	agc	tca	ctg	acc	tat	gaa	gat	acc	tac	aac	acc		1008
Ala	Asn	Val	Ser	Met	Ser	Ser	Leu	Thr	Tyr	Glu	Asp	Thr	Tyr	Asn	Thr		
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Leu	Lys	Tyr	Ala	Ser	Arg	Ala	Lys	Lys	Ile	Arg	Thr	Thr	Leu	Lys	Gln		
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Asn	Val	Leu	Lys	Ser	Lys	Met	Pro	Thr	Glu	Phe	Tyr	Val	Lys	Lys	Ile		
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Asp	Glu	Val	Val	Ala	Glu	Asn	Glu	Arg	Leu	Lys	Glu	Arg	Asn	Lys	Ala		
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Leu	Glu	Ala	Lys	Ala	Thr	Gln	Leu	Glu	Arg	Ala	Gly	Asn	Ser	Gly	Phe		
385					390					395					400		
gat	ccg	ctg	gag	ctt	aag	acg	tgg	tac	agc	aag	ata	gac	gct	gta	tat		1248
Asp	Pro	Leu	Glu	Leu	Lys	Thr	Trp	Tyr	Ser	Lys	Ile	Asp	Ala	Val	Tyr		
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gcg	gcc	gcc	cgg	cag	ctt	cag	gag	cac	gtc	ctt	ggc	atg	cgt	agc	aag		1296
Ala	Ala	Ala	Arg	Gln	Leu	Gln	Glu	His	Val	Leu	Gly	Met	Arg	Ser	Lys		
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atc	aag	aac	atc	aac	tac	cgg	cag	aca	ctg	aaa	aaa	gaa	ctg	gag	gag		1344
Ile	Lys	Asn	Ile	Asn	Tyr	Arg	Gln	Thr	Leu	Lys	Lys	Glu	Leu	Glu	Glu		
		435					440					445					
ttc	agg	aag	ctg	atg	tgt	gtc	gac	cag	cga	gtg	tgc	cag	gag	gac	ttc		1392
Phe	Arg	Lys	Leu	Met	Cys	Val	Asp	Gln	Arg	Val	Cys	Gln	Glu	Asp	Phe		
	450					455					460						
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Arg	Arg	Phe	Ala	Asn	Tyr	Met	Ser	Thr	Leu	Thr	Ser	Gln	Met	Glu	Lys		
465					470					475					480		
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Tyr	Lys	Glu	Glu	Leu	Pro	Ser	Trp	Leu	Ser	Lys	Met	Glu	Ile	Ala	Tyr		
				485				490						495			
cag	gat	cta	gaa	agt	cta	aag	cga	gag	gtt	aac	aaa	tca	aag	gcc	tac		1536
Gln	Asp	Leu	Glu	Ser	Leu	Lys	Arg	Glu	Val	Asn	Lys	Ser	Lys	Ala	Tyr		

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acc aag cag aat atc ttt aac aat cac gtg aac gca att aac cag gag Thr Lys Gln Asn Ile Phe Asn Asn His Val Asn Ala Ile Asn Gln Glu 530 535 540			1632
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ttc gcc gat tcc gag gcc aat acc aaa atg gcc gag atg aat ccg ttg Phe Ala Asp Ser Glu Ala Asn Thr Lys Met Ala Glu Met Asn Pro Leu 595 600 605			1824
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aca tgc agc ctc acg gcc agc gcc aaa aag cga caa agg caa gcg gct Thr Cys Ser Leu Thr Ala Ser Ala Lys Lys Arg Gln Arg Gln Ala Ala 625 630 635 640			1920
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gcg gct gct tct ctg gcc aag gaa aac gta aaa tac aac gcc aac tat Ala Ala Ala Ser Leu Ala Lys Glu Asn Val Lys Tyr Asn Ala Asn Tyr 755 760 765	2304
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